# APPENDIX G

# TAKE SPECIES MAPS

## LIST OF ATTACHMENTS


Figure 6.2.1.3-1 Potential Occurrence of Indiana Bat Within Covered Lands
Figure 6.2.1.3-2 Potential Occurrence of Indiana Bat Within Covered Lands
Figure 6.2.2.3-1 Bog Turtle Suitable Habitat Within the NiSource Covered Lands
Figure 6.2.2.3-2 Bog Turtle Suitable Habitat Within the NiSource Covered Lands
Figure 6.2.3.3-1 Potential Occurrence of Madison Cave Isopod Within Covered Lands
Figure 6.2.4.3-1 Potential Occurrence of the Clubshell Mussel Within Covered Lands
Figure 6.2.5.3-1 Potential Occurrence of the Northern Riffleshell Mussel Within Covered Lands
Figure 6.2.6.3-1 Potential Occurrence of the Fanshell Mussel Within Covered Lands
Figure 6.2.7.3-1 Potential Occurrence of the James Spinymussel Within Covered Lands
Figure 6.2.8.3-1 Potential Occurrence of the Sheepnose Mussel Within Covered Lands
Figure 6.2.9.3-1 Potential Occurrence of the Nashville Crayfish Within Covered Lands
Figure 6.2.10.3-1 Potential Occurrence of the American Burying Beetle Within Covered Lands

**Figure 6.2.1.3-1**
**Potential Occurrence of Indiana Bat Within Covered Lands**

**Figure 6.2.1.3-2**
**Potential Occurrence of Indiana Bat Within Covered Lands**

**Figure 6.2.2.3-1**
**Bog Turtle Suitable Habitat Within the NiSource Covered Lands**

**Figure 6.2.2.3-2**
**Bog Turtle Suitable Habitat Within the NiSource Covered Lands**

**Figure 6.2.3.3-1**
**Potential Occurrence of Madison Cave Isopod Within Covered Lands**

**Figure 6.2.4.3-1**
**Potential Occurrence of the Clubshell Mussel Within Covered Lands**

**Figure 6.2.5.3-1**
**Potential Occurrence of the Northern Riffleshell Mussel Within Covered Lands**

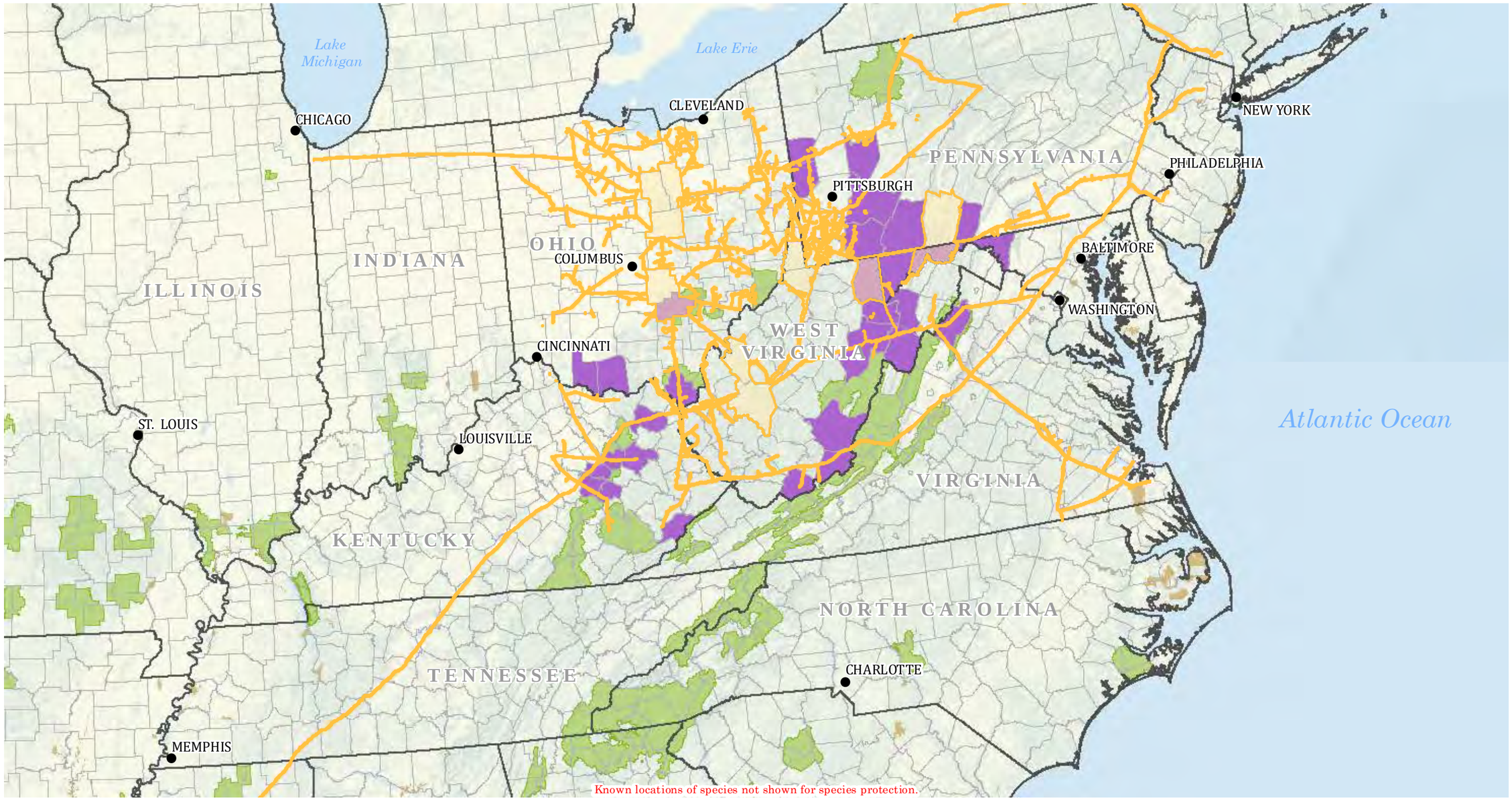
**Figure 6.2.6.3-1**
**Potential Occurrence of the Fanshell Mussel Within Covered Lands**

**Figure 6.2.7.3-1**
**Potential Occurrence of the James Spinymussel Within Covered Lands**

**Figure 6.2.8.3-1**
**Potential Occurrence of the Sheepnose Mussel Within Covered Lands**

**Figure 6.2.9.3-1**
**Potential Occurrence of the Nashville Crayfish Within Covered Lands**

**Figure 6.2.10.3-1**
**Potential Occurrence of the American Burying Beetle**
**Within Covered Lands**




Area of Detail

LEGEND

- Counties Containing Known Hibernacula Potentially Impacted
- Covered Lands
- U.S. Forest Service Lands
- National Wildlife Refuge Managed Lands

NGS USA Topographic Maps

0 37.5 75 150
Miles

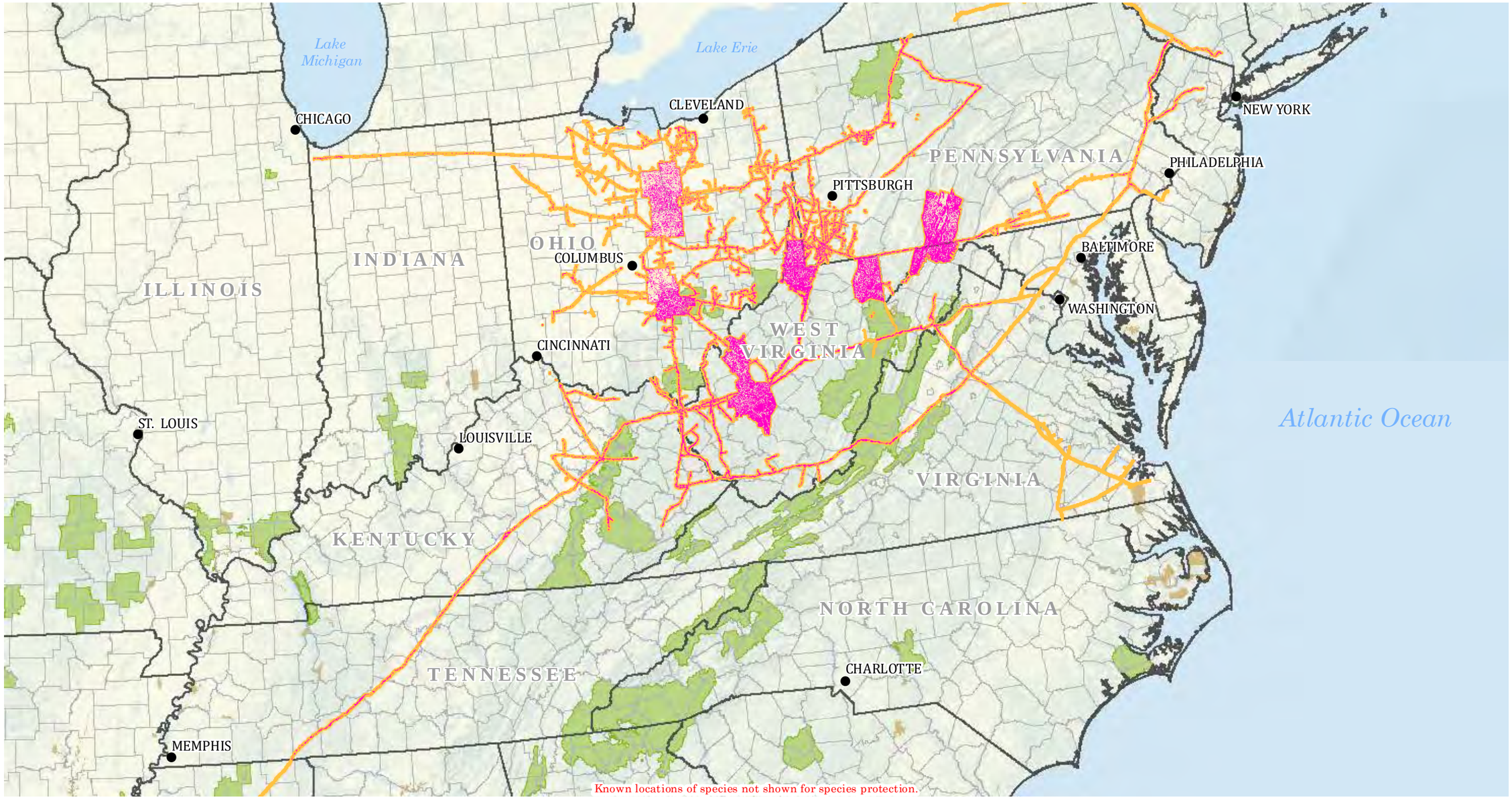
0 60 120 240
Kilometers

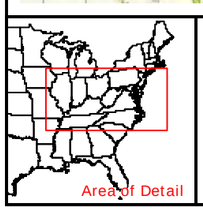
**NiSource MSHCP Project**

**Potential Occurance Of Indiana Bat Within The Covered Lands**

Maps produced by:
US Fish & Wildlife Service

April, 2010




LEGEND

- Indiana Bat Habitat Wihtin Covered Lands
- Covered Lands
- U.S. Forest Service Lands
- National Wildlife Refuge Managed Lands

NGS USA Topographic Maps

0 37.5 75 150
Miles

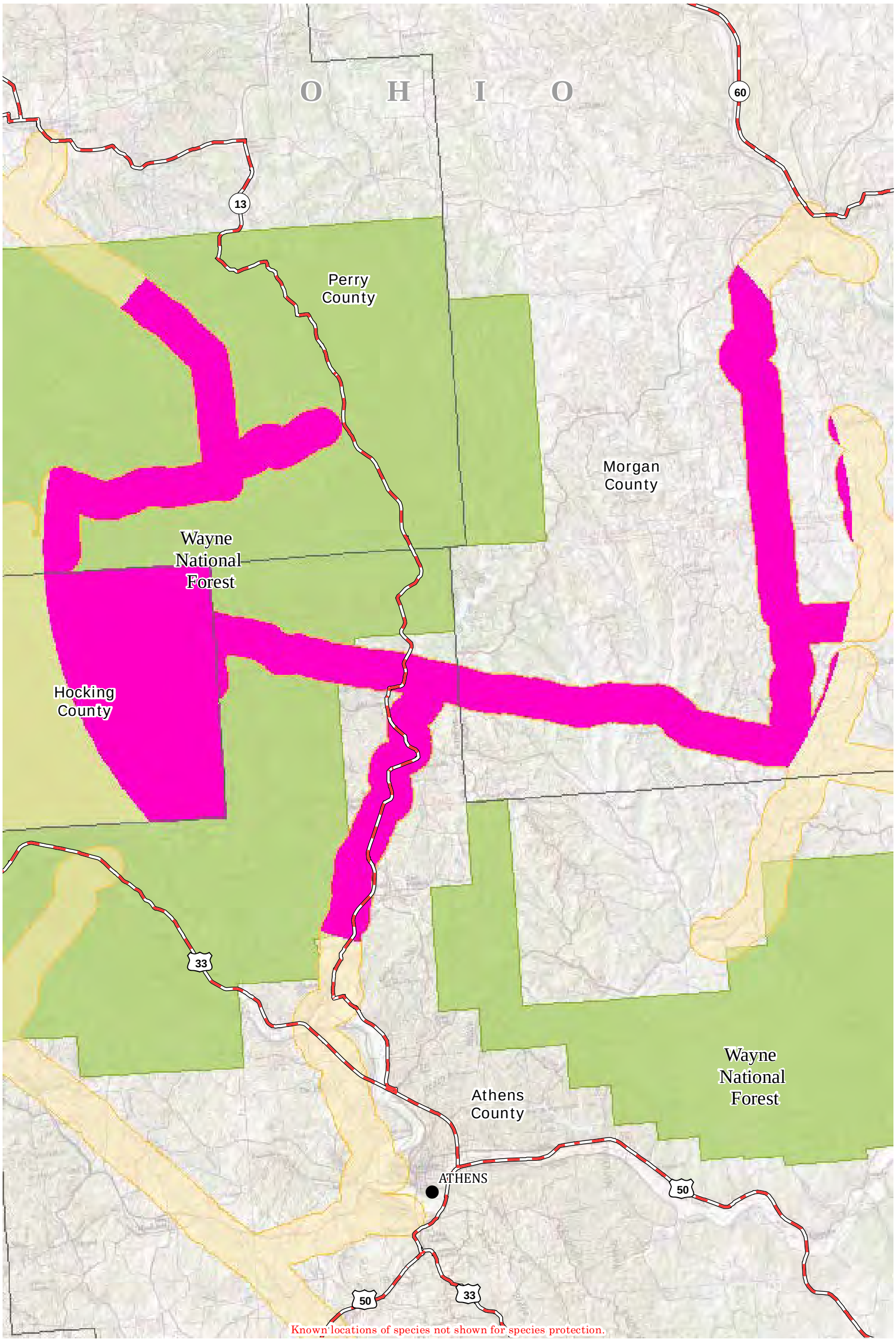
0 60 120 240
Kilometers

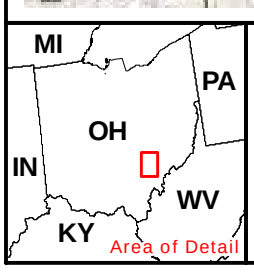
**NiSource MSHCP Project**

**Potential Occurance Of Indiana Bat Within The Covered Lands**

Maps produced by:
US Fish & Wildlife Service

April, 2010




LEGEND

- American Burying Beetle Habitat Within Covered Lands
- Covered Lands
- U.S. Forest Service Lands

NGS USA Topographic Maps

0 1.25 2.5 5
Miles

0 1.25 2.5 5
Kilometers

**NiSource MSHCP Project**

Habitat Conservation Plan
Preserving Our Natural Legacy

**Potential Occurance Of American Burying Beetle Within The Covered Lands**

Maps produced by:
US Fish & Wildlife Service

April, 2010

Mifflin County
Juniata County
Perry County
Huntingdon County
Cumberland County
Dauphin County
Lebanon County
Lancaster County
York County
Adams County
Franklin County
Fulton County
Washington County
Frederick County
Carroll County
Baltimore County
Harford County
Cecil County
Chester County
New Castle County
Kent County
Queen Anne's County
Baltimore City County
Howard County
Morgan County
Lancaster
Wilmington
Baltimore
Frederick
HOPEWELL FURNACE NATIONAL HISTORIC SITE
EISENHOWER NATIONAL HISTORIC SITE
GETTYSBURG NATIONAL MILITARY PARK
CATOCTIN MOUNTAIN PARK
CHESAPEAKE AND OHIO CANAL NATIONAL HISTORIC PARK
ANTIETAM NATIONAL BATTLEFIELD
PENNSYLVANIA
DELAWARE
MARYLAND
WEST VIRGINIA
22 81 422 222 322 283 76 83 30 202 11 522 15 1 95 40 13 301 68 70 795 695 395

Area of Detail
NY PA NJ MD DE

**LEGEND**

- NISOURCE COVERED LANDS
- BOG TURTLE SUITABLE HABITAT (NOT TO SCALE)
- NATIONAL PARK SERVICE LAND

N W E S

10 8 6 4 2 0 10
Scale in Miles

**Note:** Data sensitivity disallows display of location-specific known occurrences and/or habitat for this species; instead, this map illustrates a realistic representation of suitable habitat or limited range within Covered Lands. In practice, best available data and real-time survey work will inform where AMMs will be implemented on the ground.

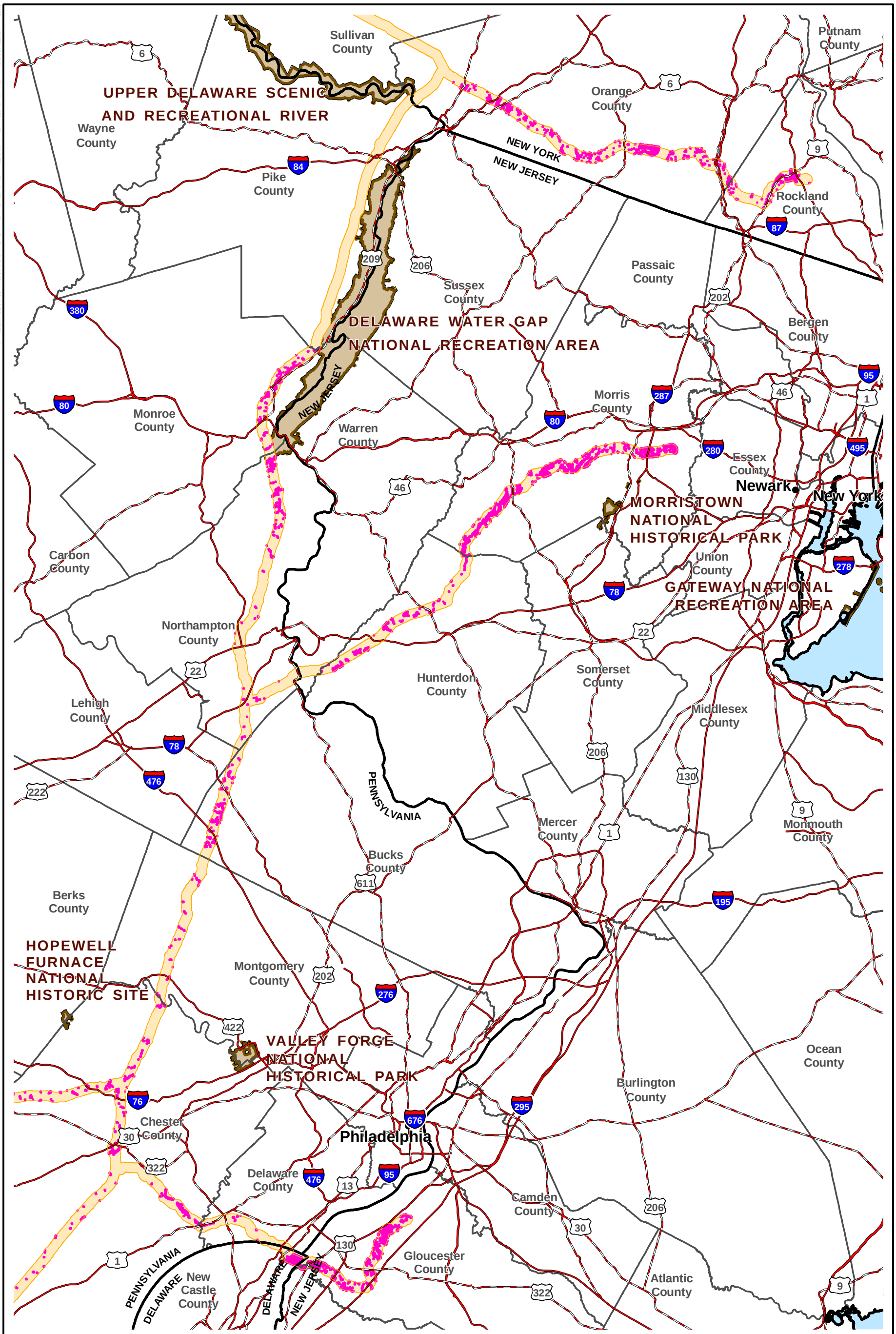
# NiSource MSHCP Project

Habitat Conservation Plan
Preserving Our Natural Legacy

## Bog Turtle Suitable Habitat within the NiSource Covered Lands

ENSR | AECOM

June, 2008



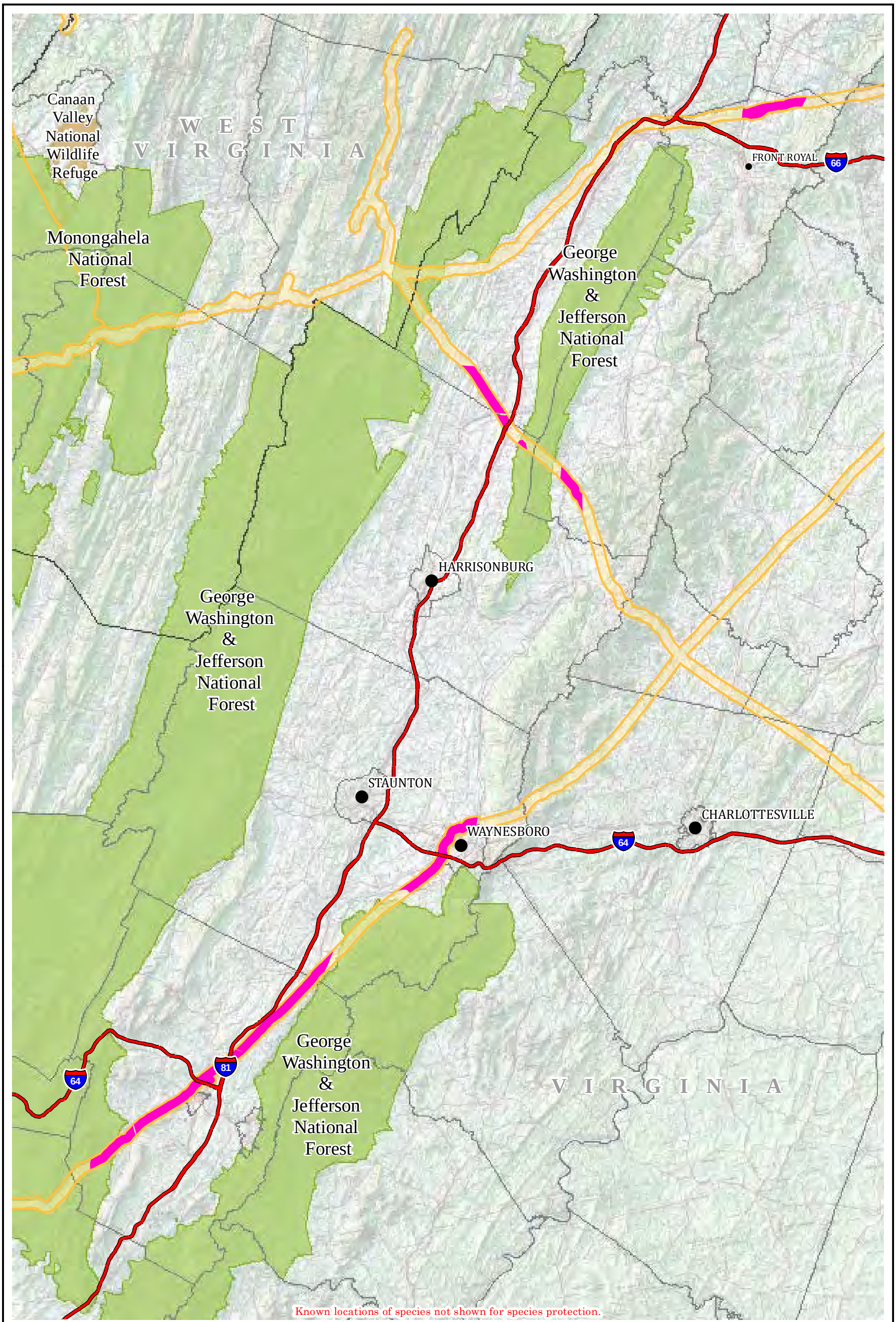

# NiSource MSHCP Project

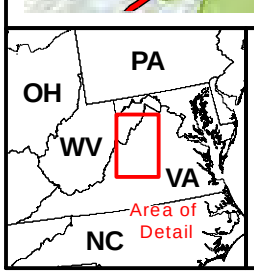
Habitat Conservation Plan
Preserving Our Natural Legacy

## Bog Turtle Suitable Habitat within the NiSource Covered Lands

ENSR | AECOM

June, 2008




LEGEND

- Madison Cave Isopod Habitat Within Covered Lands
- Covered Lands
- U.S. Forest Service Lands
- National Wildlife Refuge Managed Lands

NGS USA Topographic Maps

0 4 8 16
Miles

0 4 8 16
Kilometers

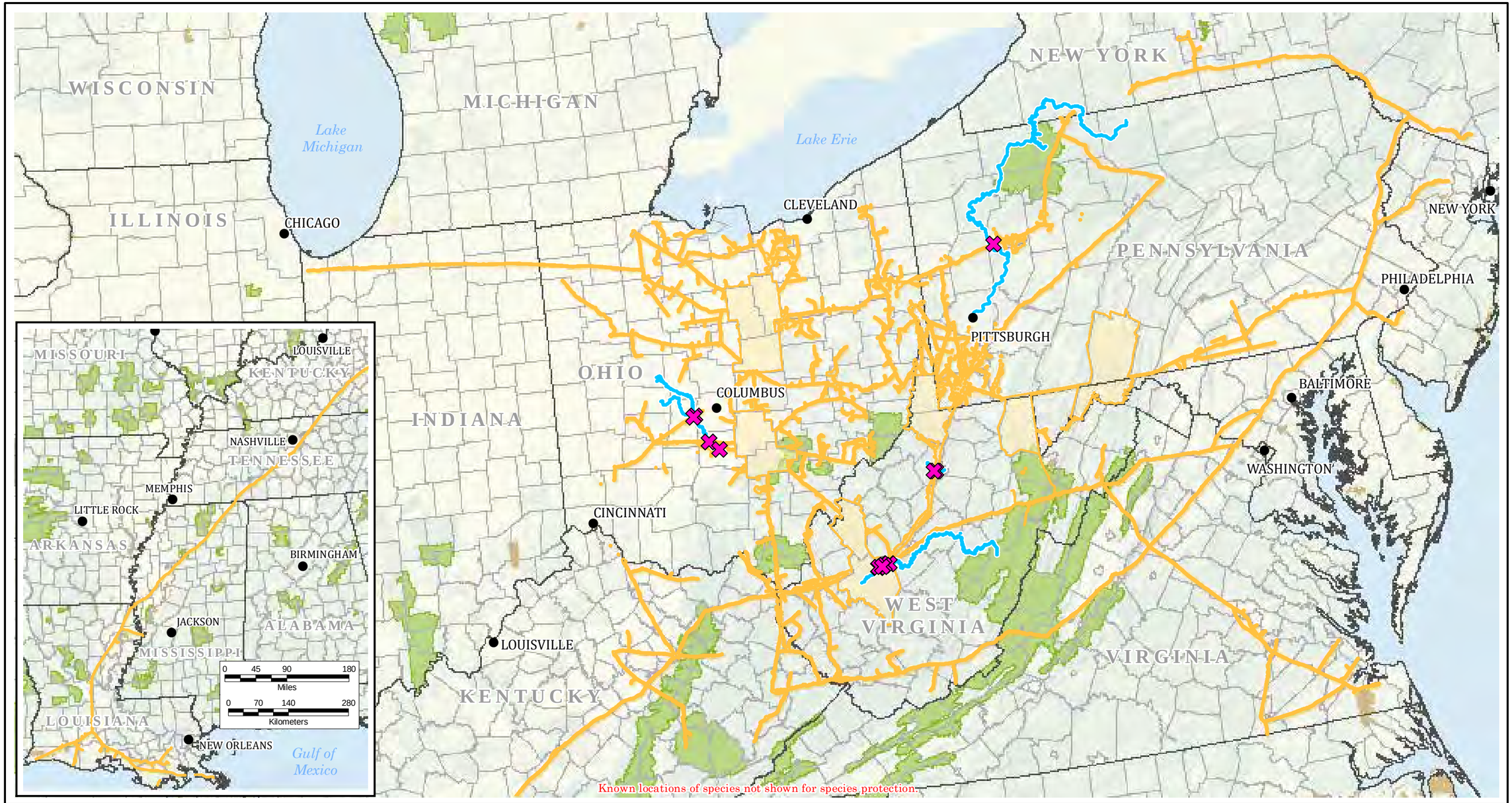
**NiSource MSHCP Project**

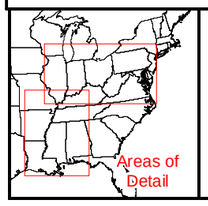
Habitat Conservation Plan
Preserving Our Natural Legacy

**Potential Occurance Of Madison Cave Isopod Within The Covered Lands**

Maps produced by:
US Fish & Wildlife Service

April, 2010




LEGEND

Stream-Pipeline Intersections

Clubshell Occupied Stream

Tributary to Occupied Stream

Clubshell Streams Analyzed For Impacts

Covered Lands

(Covered Lands may appear as a single line due to scale)

U.S. Forest Service Lands

National Wildlife Refuge Managed Lands

NGS USA Topographic Maps

0 30 60 120
Miles

0 40 80 160
Kilometers

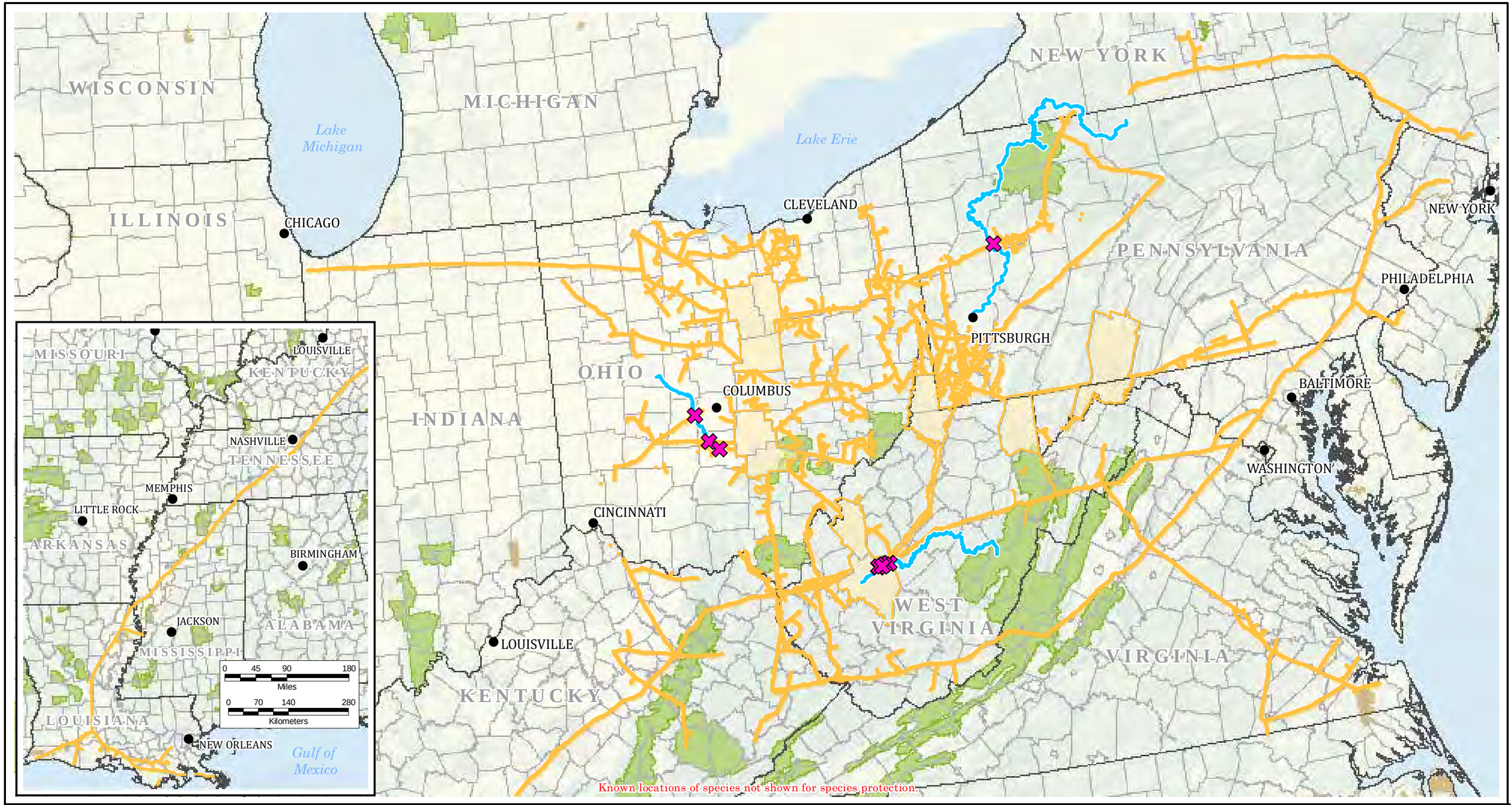
**NiSource MSHCP Project**

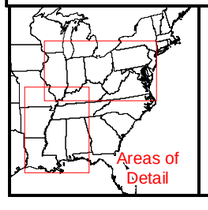
Habitat Conservation Plan
Preserving Our Natural Legacy

**Potential Occurance Of Clubshell Mussel Within The Covered Lands**

Maps produced by:
US Fish & Wildlife Service

April, 2010




LEGEND

- Stream-Pipeline Intersections
- Northern Riffleshell Occupied Stream
- Tributary to Occupied Stream
- Northern Riffleshell Streams Analyzed for Impacts
- Covered Lands
- (Covered Lands may appear as a single line due to scale)
- U.S. Forest Service Lands
- National Wildlife Refuge Managed Lands
- NGS USA Topographic Maps

0 30 60 120
Miles
0 40 80 160
Kilometers

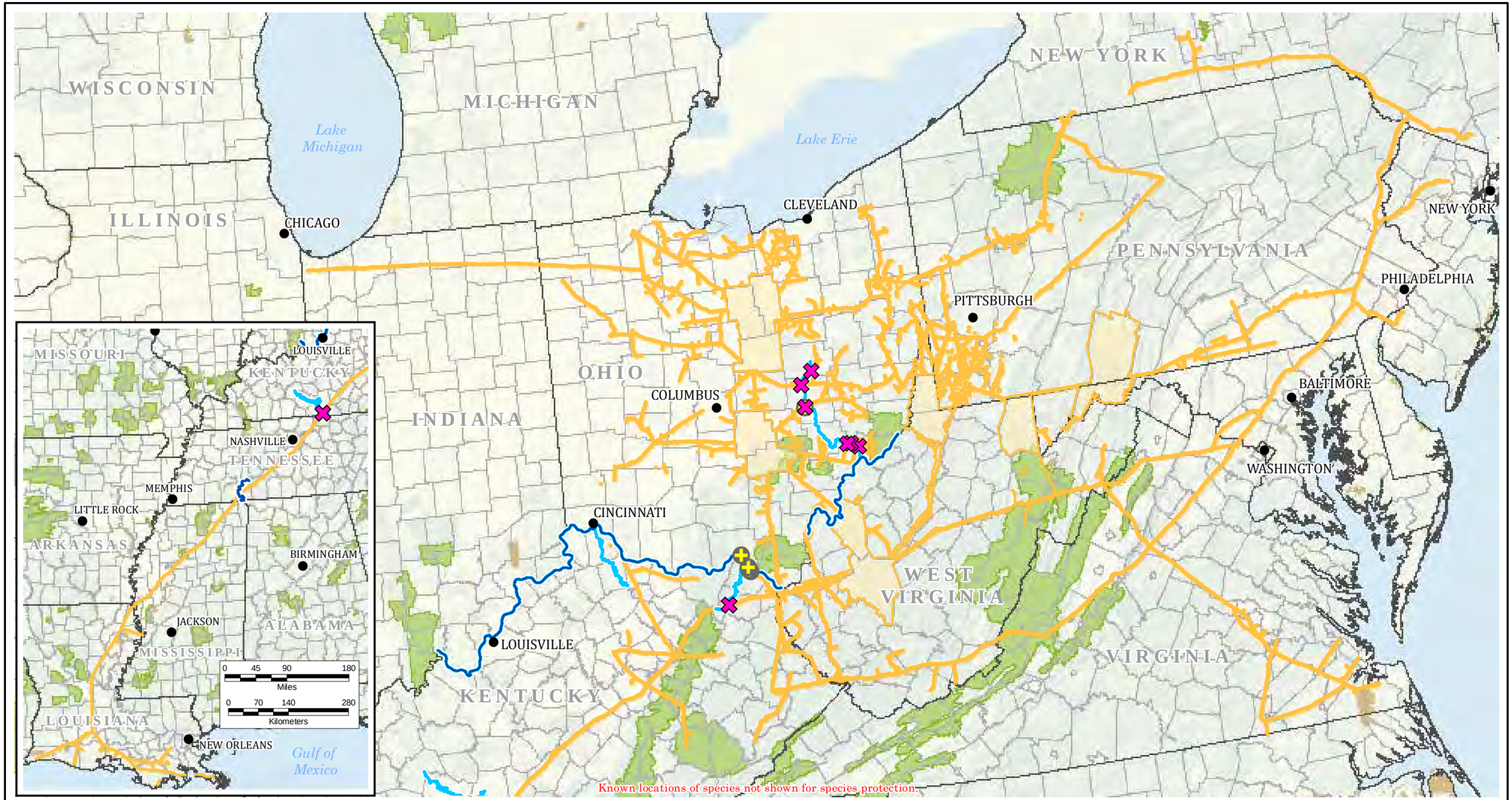
**NiSource MSHCP Project**

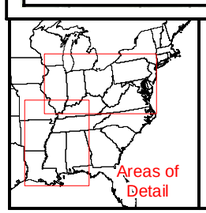
Habitat Conservation Plan
Preserving Our Natural Legacy

**Potential Occurance Of Northern Riffleshell Mussel Within The Covered Lands**

Maps produced by:
US Fish & Wildlife Service

April, 2010




LEGEND

Stream-Pipeline Intersections

Fanshell Occupied Stream

Tributary to Occupied Stream

Fanshell Streams Analyzed For Impacts

Fanshell Streams NiSource Will Avoid Direct Impacts

Covered Lands

(Covered Lands may appear as a single line due to scale)

U.S. Forest Service Lands

National Wildlife Refuge Managed Lands

NGS USA Topographic Maps

0 30 60 120
Miles

0 40 80 160
Kilometers

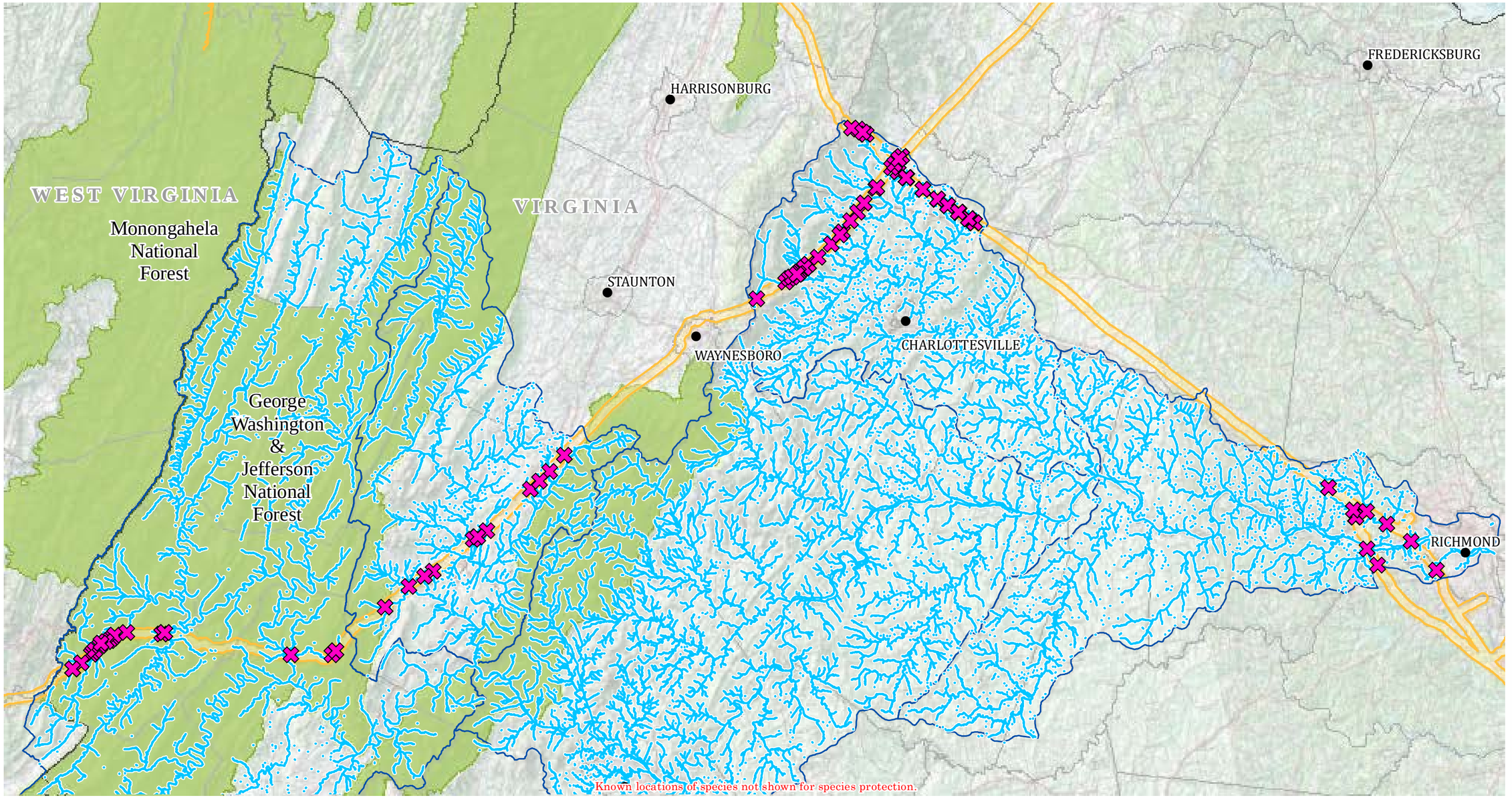
**NiSource MSHCP Project**

Habitat Conservation Plan
Preserving Our Natural Legacy

**Potential Occurance Of Fanshell Mussel Within The Covered Lands**

Maps produced by:
US Fish & Wildlife Service

April, 2010




PA
OH
WV
VA
Areas of Detail

LEGEND

**Stream-Pipeline Intersections**

James Spinymussel Occupied Stream

James Spinymussel Streams Analyzed for Impacts

Watershed Boundaries

Covered Lands

U.S. Forest Service Lands

National Wildlife Refuge Managed Lands

NGS USA Topographic Maps

0 2.5 5 10
Miles

0 4.5 9 18
Kilometers

**NiSource MSHCP Project**

Habitat Conservation Plan
Preserving Our Natural Legacy

**Potential Occurance Of James Spinymussel Within The Covered Lands**

Maps produced by:
US Fish & Wildlife Service

April, 2010

WISCONSIN
MICHIGAN
NEW YORK
Lake Michigan
Lake Erie
ILLINOIS
CHICAGO
CLEVELAND
NEW YORK
PENNSYLVANIA
PHILADELPHIA
PITTSBURGH
OHIO
COLUMBUS
BALTIMORE
INDIANA
WASHINGTON
CINCINNATI
WEST VIRGINIA
LOUISVILLE
VIRGINIA
KENTUCKY
Known locations of species not shown for species protection

MISSOURI
KENTUCKY
LOUISVILLE
NASHVILLE
TENNESSEE
MEMPHIS
LITTLE ROCK
ARKANSAS
BIRMINGHAM
JACKSON
ALABAMA
MISSISSIPPI
LOUISIANA
NEW ORLEANS
Gulf of Mexico
0 45 90 180
Miles
0 70 140 280
Kilometers

Areas of Detail

LEGEND

Stream-Pipeline Intersections
Sheepnose Occupied Stream
Tributary to Occupied Stream
Sheepnose Streams Analyzed for Impacts
Sheepnose Streams NiSource Will Avoid Direct Impacts
Covered Lands
(Covered Lands may appear as a single line due to scale)
U.S. Forest Service Lands
National Wildlife Refuge Managed Lands
NGS USA Topographic Maps

0 30 60 120
Miles
0 40 80 160
Kilometers

**NiSource MSHCP Project**

Habitat Conservation Plan
Preserving Our Natural Legacy

**Potential Occurance Of Sheepnose Mussel Within The Covered Lands**

Maps produced by:
US Fish & Wildlife Service

April, 2010

Davidson County

Williamson County

Known locations of species not shown for species protection.

IL IN KY TN MS AL GA

Area of Detail

LEGEND

Stream Pipeline Intersections

Nashville Crayfish Streams Analyzed for Impacts

Watershed Boundary

Covered Lands

NGS USA Topographic Maps

0 0.5 1 2

Miles

0 0.5 1 2

Kilometers

**NiSource MSHCP Project**

Habitat Conservation Plan

Preserving Our Natural Legacy

**Potential Occurance Of Nashville Crayfish Within The Covered Lands**

Maps produced by:

US Fish & Wildlife Service

April, 2010